

KN1108v/KN1116v

KVM Over the NET™

- The KN1108v / KN1116v is an IP-based KVM control unit, with dual IP / dual power functionality and Virtual Media support, that allows both local and remote operators to monitor and access multiple servers from a single console.

Since the KN1108v / KN1116v uses TCP/IP for its communications protocol, it can be accessed via their IP addresses from anywhere on the LAN, WAN, or Internet – whether the connecting computer is located down the hall, down the street, or half-way around the world. Remote operators can log in via their browser or make use of stand-alone Windows or Java GUI applications.

Monitoring the installation's activities couldn't be easier. A convenient Auto Scan feature permits automatic switching from port to port at user-specified intervals, while the Panel Array Mode can display the video output of multiple servers at the same time.

The KN1108v / KN1116v also supports advanced virtual media functions, such as mapping USB DVD/CD/hard drives; and other storage media to a server. Virtual media support allows you to conduct file transfers, installs applications and OS patches, and perform diagnostics remotely. You can upgrade your entire installation from a single remote console located anywhere in the world. In addition, the KN1108v / KN1116v offers dual IP and dual power supplies so that if one of the IP or power supplies fails, the second automatically takes over.

With its powerful features, the KVM Over the NET™ switch provides the fastest, most reliable, most cost effective way to remotely access and manage multiple server installations.

● KN1116v front view



● KN1116v rear view



Features

Hardware

- High port density – RJ-45 connectors for up to 8/16 ports in a 1U housing
 - One bus for remote KVM over IP access
 - Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
 - Blade server support
 - Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
 - Local console provides PS/2 and USB keyboard and mouse support
 - Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
 - Audio enabled
 - Virtual Media support lets you map DVD-CD-ROMs and other storage media to a remote server
 - Dual Power Supply
 - High video resolution – up to 1600 x 1200 @ 60Hz – 32 bit color depth for the local console; up to 1920 x 1200 @ 60Hz (Reduced blanking) with 24 bit color depth for remote sessions
 - Monitor and control up to 16 computers on a single level, or control up to 256 computers in a two-level cascade.
- * Cascade-compatible KVM Switches include the following: CS9134, CS9138, CS88A, KH1508, KH1516, KH1508A, and KH1516A

Management

- Up to 64 user accounts – up to 32 users simultaneously share the control
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Firmware upgradeable
- Out-of-Band Access-Modem dial-in/dial out/dial back support
- Adapter ID Function: Stores port information allowing administrators to relocate the servers to different ports, without having to re-configure the adapters and switches
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Integration with ALTUSEN CC2000 Management software
- Power Association enables the switch's KVM ports to be associated with an ATEN/ALTUSEN'S PDUs power outlets for remote power management of the servers from the switch's interface
- Power Over the NET™ integration for remote power control, plus support for 3rd party power distribution units (PDUs)
- Manage browser access methods (Browser, http, https)
- IPv6 capable

Ease-to-Use Interface

- Local Console, browser-based, and AP GUIs offer a unified multilanguage interface to minimize the user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla, Netscape
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package required
- Magic Panel
- Full-screen or sizable and scalable Virtual Remote Desktop
- Panel Array Mode available to both local console operators and remote access users
- Keyboard/Mouse Broadcast – keyboard and mouse inputs can be duplicated on all the attached servers
- Video syncing with the local console – local console monitor's EDID information stored on the KVM Adapter Cables for display resolution optimization

Advanced Security

- Remote authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- 128-bit SSL encryption to protect password when users log in
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or Random for independent KB/Mouse, video, and virtual media data encryption
- Support for IP/MAC Filter
- Configurable user and group permissions for server access and control
- Automated CSR creation utility and third party CA certificate authentication

Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Support DVD/CD drives, USB mass storage devices, PC hard drives and ISO images

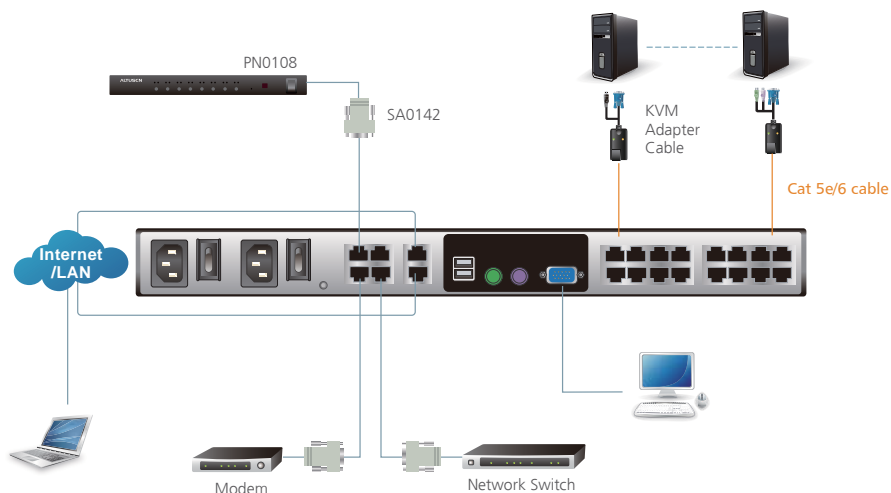
Virtual Remote Desktop

- Video quality and video tolerance can be adjusted to optimize data transfer speed; monochrome color depth setting, threshold and noise settings for compression of the data bandwidth in low bandwidth situations
- Full screen video display or scalable video display
- Message Board for communication among remote users
- Mouse DynaSync™ - automatically synchronizes the local and remote mouse movements
- Keyboard pass through support
- Exit Macros support
- On-screen keyboard with multilanguage support
- BIOS-level access

Benefits

| | |
|-------------------------------|---|
| Blade Server Support | Support for blade server associations with KVM switch ports allows the blade server chassis and individual blades to be integrated into the sidebar tree view and accessed easily. |
| Improved SNMP Trap | Monitor the critical events on your system and customize the settings according to your needs. Logged events are divided into categories providing clear and complete information to administrators. |
| Dual IP/Dual Power | Dual IP/ Dual Power supply operation provides the backup redundancy, and reliability. Should one of the IP or one of the power supplies become unavailable, the other will take over in order to keep the system functioning normally. |
| Virtual Remote Desktop | The remote desktop can appear full-screen or as a window with a flexible scaling video display. Advanced features such as the Message Board, Mouse DynaSync™, Virtual Media, and Keyboard Pass Through, create a Virtual Remote Desktop that allows users to operate servers from remote locations just as if they were actually at the local site. |
| Mouse DynaSync™ | Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings. |

| | |
|-------------------------|--|
| Panel Array Mode | Panel array mode permits simultaneous monitoring of the video output of the installations' servers. Operators can monitor the screen display of multiple servers for real-time server monitoring. |
| Message Board | To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions like an Internet chat program, allowing users who are logged in to instantly communicate with each other. |
| Adapter ID | The Adapter ID Function stores port information such as the Adapter ID, OS, keyboard language, adapter name, operation modes, and etc. This enables administrators to relocate the servers to different ports, without having to re-configure the adapters and the switches. |
| Virtual Media | Virtual Media support lets you map DVD/CD-ROMs and other storage media to a remote server. This function allows you to conduct file transfers, application and OS patches, and diagnostics remotely. |



KVM Adapter Cables

The following KVM Adapter cables are required for use with the KVM Over the NET Switches:

| Type: | PS/2 KVM Adapter Cable | USB KVM Adapter Cable | Sun Legacy KVM Adapter Cable | Serial KVM Adapter Module | Serial KVM Adapter Cable | USB Virtual Media KVM Adapter Cable | USB Virtual Media KVM Adapter Cable with Audio | USB Virtual Media KVM Adapter Cable with Smart Card Reader |
|------------|--|--|--|--|--|---|--|---|
| Interface: | KA9120/KA7120 PS/2 6-pin Mini-DIN Male 6-pin Mini-DIN Male HDB-15 Male | KA9170/KA7170 For all USB systems USB Type A Male HDB-15 Male | KA9130/KA7130 Sun Legacy 13W3 Male DIN 8 pin Male | KA9140 Serial RS-232 DB-9 Female | KA7140 Serial RS-232 DB-9 Female | KA7175 Connect to systems with USB 2.0 ports USB Type A Male HDB-15 Male | KA7176 Connect to systems with USB 2.0 ports+Audio USB Type A Male HDB-15 Male 2 Audio plugs | KA7177 Connect to system with USB 2.0 ports + Smart Card Reader support USB Type A Male USB Type A Male HDB-15 Male |

*1920 x 1200 (Reduced blanking) only supported by KA7175, KA7176, and KA7177.

Specification

| Function | | | KN11108v | KN1116v |
|----------------------|------------------------------|----------------|---|------------------------------|
| Computer Connections | Direct | | 8 | 16 |
| | Max | | 128 (via Cascade) | 256 (via Cascade) |
| Port Selection | | | Pushbutton, GUI, Hotkey | |
| Connectors | Console Port | Keyboard | 1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (White) | |
| | | Video | 1 x HDB-15 Female (Blue) | |
| | | Mouse | 1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (White) | |
| | KVM Ports | | 8 x RJ-45 Female | 16 x RJ-45 Female |
| | Power | | 2 x 3-prong AC socket | |
| | LAN | | 2 x RJ-45 Female | |
| | PON | | 1 x RJ-45 Female | |
| | Modem | | 1 x RJ-45 Female | |
| | USB | | 3 x USB Type A Female (White); 1 x min USB Female | |
| | Audio | | 2 x Audio Jack Female | |
| | Switches | Reset | | 1 x Semi-recessed Pushbutton |
| Power | | 2 x Rocker | | |
| Port Selection | | 2 x Pushbutton | | |
| LEDs | On Line | | 8 (Green) | 16 (Green) |
| | Power | | 1 (Blue) | |
| | Link 10 / 100 / 1000 Mbps | | 1 (Green / Green/Orange) | |
| Emulation | Keyboard/Mouse | | PS/2 / USB (PC, Mac, Sun) / Serial | |
| Video | | | 1600x1200 @ 60Hz; 1920 x 1200 DDC2B | |
| Scan Interval | | | 1-255 Seconds | |
| I/P Rating | | | 100-240VAC; 50-60Hz; 1.0A | |
| Power consumption | Single Power | | TBA | TBA |
| | Dual Power | | TBA | TBA |
| Environment | Operating Temp. | | 32 - 122°F | |
| | Storage Temp. | | -4 - 140°F | |
| | Humidity | | 0 - 80% RH, Non-condensing | |
| Physical Properties | Housing | | Metal | |
| | Weight | | TBA | TBA |
| | Dimensions(L x W x H) | | TBA | TBA |

